

**State of California
AIR RESOURCES BOARD**

**Research Screening Committee Meeting
Cal/EPA Headquarters Building
1001 I Street
Conference Room 510
Sacramento, California 95814
(916) 445-0753**

and

**California State Polytechnic University
Engineering IV, Building 192
Room Number: 206
Street location: Corner of California Blvd. and Highland Drive
San Luis Obispo, California 93407**

**October 26, 2012
9:00 a.m.**

ACTION

- I. Approval of Minutes of Previous Meeting
July 11, 2012

-- Approved
- II. Discussion of New Research Projects:
 - 1) "Measuring Real-World Emissions from the On-Road Heavy-Duty Truck Fleet," University of California, Berkeley, \$450,000, Proposal No. 2745-275

-- Approved
 - 2) "Evaluating the Benefits of Light Rail Transit," University of California, Irvine, \$200,000, Proposal No. 2746-275

-- Approved
 - 3) "Economic and Operational Considerations in Transitioning to a Zero or Near-Zero Emission Rail System in California," University of Illinois, \$399,889, Proposal No. 2747-275

-- Approved

- 4) "Life Cycle Assessment and Co-Benefits of Cool Pavements,"
Lawrence Berkeley National Laboratory, \$450,000, Proposal No. 2748-275

-- Approved
- 5) "Improving Detection of Particulate Matter Emissions for Certification of
Advanced Clean Cars (CRC Project E-99, 'Very Low PM Measurement'),"
University of California, Riverside, \$100,000, Proposal No. 2749-275

-- Approved
- 6) "Investigating Controls and Measurement Methods for Semi-Volatile Organic
Compound Emissions from Light-Duty Vehicles," Colorado State University,
Fort Collins, \$500,000, Proposal No. 2750-275

-- Approved
- 7) "Improving Chemical Mechanisms for Ozone and Secondary Organic
Carbon," University of California, Davis, \$450,024, Proposal No. 2751-275

-- Approved
- 8) "Characterizing the Climate Impacts of Brown Carbon," University of California,
San Diego, \$530,000, Proposal No. 2752-275

-- Approved
- 9) "Advanced Plug-in Electric Vehicle Travel and Charging Behavior,"
University of California, Davis, \$650,000, Proposal No. 2753-275

-- Approved
- 10) "New Car Buyers' Valuation of Zero-Emission Vehicles," University
of California, Davis, \$250,000, Proposal No. 2744-275

-- Approved
- 11) "Identifying Urban Designs and Traffic Management Strategies that
Reduce Air Pollution Exposure," University of California, Los Angeles,
\$388,001, Proposal No. 2754-275

-- Approved

III. Discussion of Draft Final Reports:

- 1) "Mobile Platform III: Characterizing Spatially Inhomogeneous Non-Criteria Pollutants in the Los Angeles Air Basin," University of California, Los Angeles, \$290,000, Contract No. 09-357

-- Approved
- 2) "Measuring the Climate Impact of Residential Buildings: Greenpoint Rated Climate Calculator Version 2," University of California, Berkeley, \$101,575, Contract No. 09-344

-- Approved
- 3) "Measurement of Diesel Solid Nanoparticle Emissions Using a Catalytic Stripper for Comparison to Europe's Particle Measurement Programme Protocol," University of California, Riverside, \$170,000, Contract No. 08-302

-- Approved
- 4) "Are There Any Counteracting Effects that Reduce the Global Warming Benefits Attributed to Black Carbon Controls: Assessment of Cloud Drop Number Concentration Changes and its Importance in Modeling Cloud Albedo Effects on Climate," University of California, San Diego, \$114,751, Contract No. 09-337

-- Approved
- 5) "Inverse Modeling to Verify California's Greenhouse Gas Emission Inventory," California State University, East Bay, \$150,000, Contract No. 09-348

-- Tabled

IV. Discussion of a Response to a Request for Proposals:

- 1) "Measuring Real-World Emissions from the On-Road Passenger Fleet," University of Denver, Colorado, \$75,000, Proposal No. 2755-275, RFP No. 12-303

-- Approved

V. Discussion of Requests for Proposals (RFP):

- 1) "Technical Analysis of Vehicle Load-Reduction Potential for Advanced Clean Cars," \$250,000, RFP No. 12-311

-- Approved

- 2) "Evaluating Technologies and Methods to Lower Nitrogen Oxide Emissions from Heavy-Duty Vehicles," \$1,000,000, RFP No. 12-310

- Approved

VI. Other Business:

- 1) Update on the 2013-2014 Research Solicitation:

- Staff provided an update to the Committee.